

WHAT IS CLAIMED IS:

1. A specificity exchanger comprising a specificity domain that is less than 200 amino acids in length joined to at least one saccharide.
2. The specificity exchanger of Claim 1, wherein said at least one saccharide is a Gal antigen.
3. The specificity exchanger of Claim 1, wherein said at least one saccharide is Gal  $\alpha$  (1,3) Gal  $\beta$ .
4. The specificity exchanger of Claim 1, wherein said specificity exchanger is a ligand/receptor specificity exchanger.
5. The specificity exchanger of Claim 1, wherein said specificity exchanger is an antigen/antibody specificity exchanger.
6. The specificity exchanger of Claim 3, wherein said specificity exchanger is a ligand/receptor specificity exchanger.
7. The specificity exchanger of Claim 3, wherein said specificity exchanger is an antigen/antibody specificity exchanger.
8. The specificity exchanger of Claim 1, wherein said specificity domain binds to a bacteria.
9. The specificity exchanger of Claim 3, wherein said specificity domain binds to a bacteria.
10. The specificity exchanger of Claim 1, wherein said specificity domain binds to a virus.
11. The specificity exchanger of Claim 3, wherein said specificity domain binds to a virus.
12. The specificity exchanger of Claim 8 or 9, wherein said bacteria is *Staphylococcus*.
13. The specificity exchanger of Claim 10 or 11, wherein said virus is selected from the group consisting of hepatitis A virus (HAV), hepatitis B virus (HBV), hepatitis C virus (HCV), influenza virus, and human immunodeficiency virus (HIV).

14. The specificity exchanger of Claim 13, wherein said virus is HIV.
15. The specificity exchanger of Claim 14, wherein said specificity domain comprises a CD4 peptide and said at least one saccharide is Gal  $\alpha$  (1,3) Gal  $\beta$ .
16. The specificity exchanger of Claim 14, wherein said specificity domain comprises a CDR peptide and said at least one saccharide is Gal  $\alpha$  (1,3) Gal  $\beta$ .
17. The specificity exchanger of Claim 3, wherein said specificity domain is less than 150 amino acids in length.
18. The specificity exchanger of Claim 3, wherein said specificity domain is less than 100 amino acids in length.
19. The specificity exchanger of Claim 3, wherein said specificity domain is less than 50 amino acids in length.
20. The specificity exchanger of Claim 3, wherein said specificity domain is less than 25 amino acids in length.
21. The specificity exchanger of Claim 3, wherein said specificity domain is 3 - 25 amino acids in length.
22. The specificity exchanger of Claim 3, wherein said specificity domain is 5 - 35 amino acids in length.
23. An improved specificity exchanger comprising a specificity domain wherein the improvement comprises at least one saccharide joined to said specificity domain.
24. The improved specificity exchanger of Claim 23, wherein said specificity exchanger is a ligand/receptor specificity exchanger.
25. The improved specificity exchanger of Claim 23, wherein said at least one saccharide joined to said specificity domain is Gal  $\alpha$  (1,3) Gal  $\beta$ .